



THE UNIVERSITY  
OF QUEENSLAND  
AUSTRALIA

CREATE CHANGE

# Regional Roadshow 2019

UQ Women in Engineering  
Engineers Without Borders

# Rural Roadshow Feedback

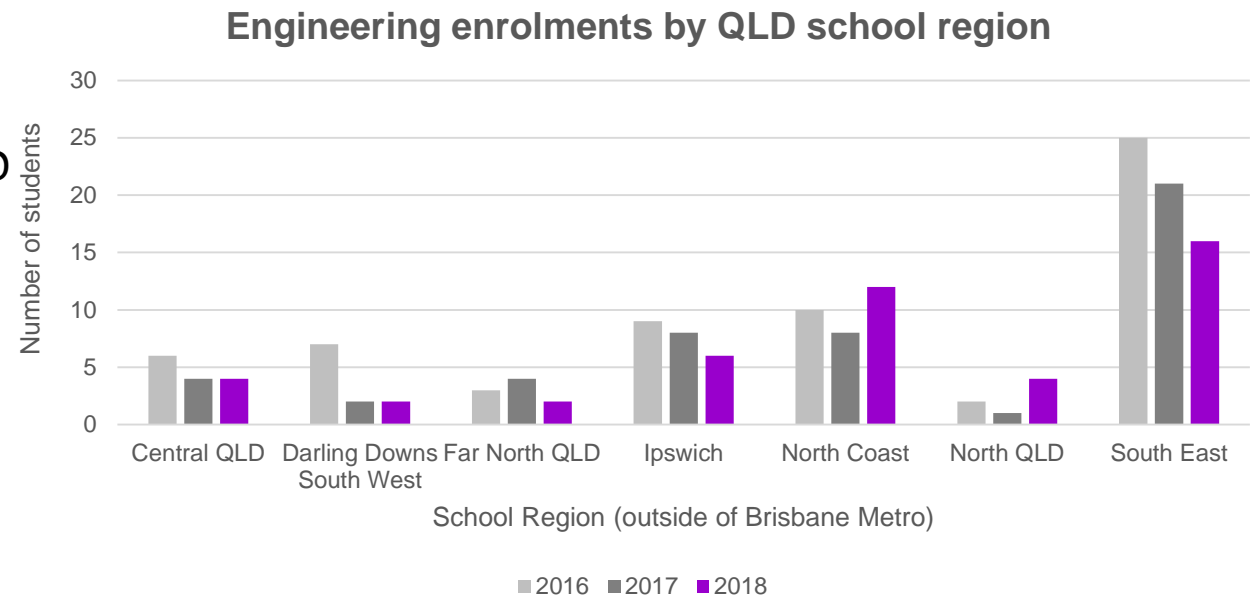
- Road trip to Darling Downs South West region  
29<sup>th</sup> April – 1<sup>st</sup> May, 2019
- 3 Regioneering volunteers – all current UQ engineering students
  - Matilda Meppem – Women in Engineering
  - Aira Fabello – Engineers Without Borders
  - Tom Kim - Engineers Without Borders
- Outreach:
  - Chinchilla State High School
  - Goondiwindi State High School
  - Warwick School of Total Education
  - Warwick State High School



# Regional data analysis

Why this school region? Data analysis from 2016 to 2018 showed:

- Majority of female school leavers enrolling in Engineering disciplines at UQ outside of Brisbane/metro regions were from “South East” ND “North Coast” schools
- Significant decline in female enrolments from the Darling Downs SW (71%)
- Able to undertake this region as a 3 day road trip from Brisbane
- Outreach request from Goondiwindi State High School teacher
- Student leader Matilda Meppem from Westmar, near Goondiwindi and moved to Brisbane for UQ Engineering



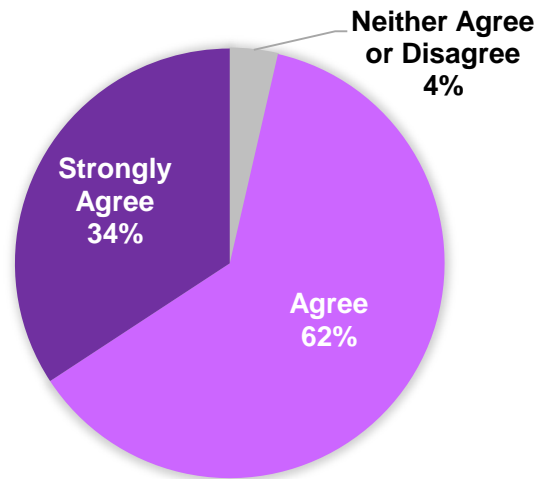
# Regional Engagement

- 148 total students in Years 9-12.
- 56 females
- 10 teachers
  
- Workshops
  - Women in Engineering
    - Renewable Energy
    - Making an Impact with Engineering
  - Engineers without Borders:
    - Clean Water
    - Floating Homes
    - Prosthetic Limbs
    - Sustainable Bridges

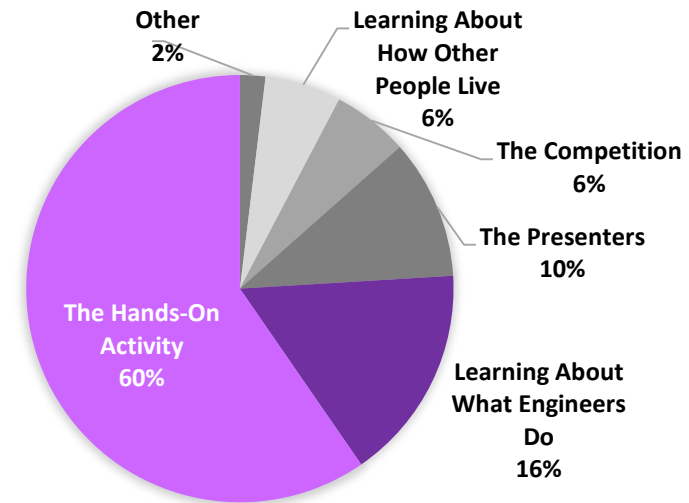


# Feedback - Students

I FOUND THE WORKSHOP INTERESTING

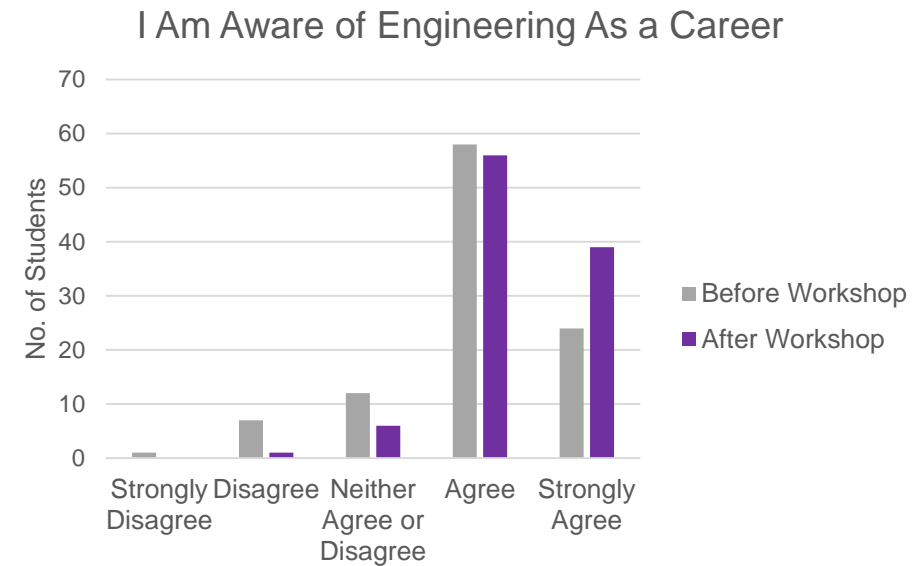
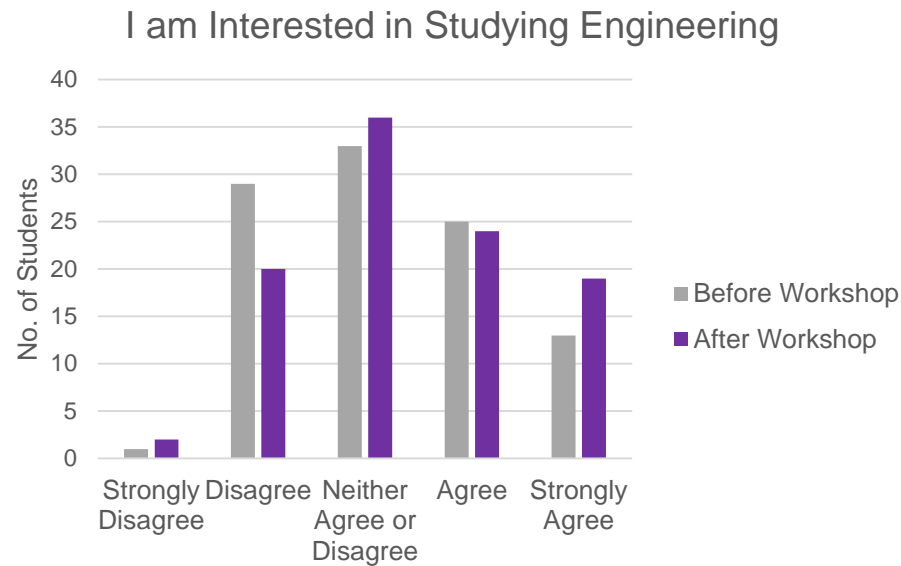


WHAT WAS THE BEST PART OF THE WORKSHOP?



- 96% of all students surveyed agreed or strongly agreed they found the workshops interesting
- When asked what their favourite part of the workshops was: 60% of students enjoyed the hands on component over all other aspects

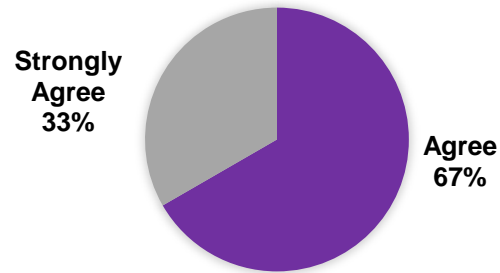
# Feedback - Students



- 46% increase in students who “Strongly Agree” they are interested in Studying Engineering after participating in the workshops
- 62% increase in students who “Strongly Agree” they are aware of Engineering as a Career after participating in the workshops

# Feedback - Teachers

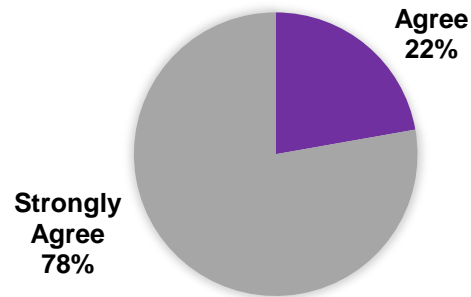
THE WORKSHOP CONTENT WAS SUITABLE TO CLASS



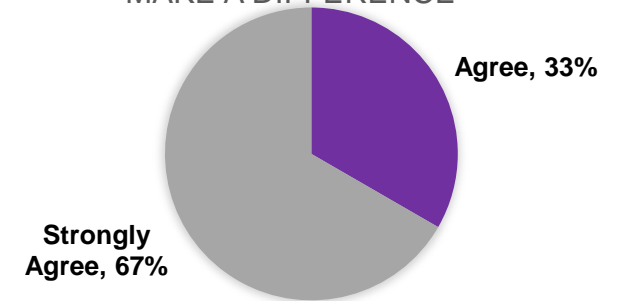
ALL teachers Agreed or Strongly Agreed that:

- Workshop content was valuable to their students
- Volunteers were effective presenters and communicated the engineering message positively
- Would recommend engineering careers to their students
- Would recommend and promote the UQ WE/EWB workshop for other classes and students

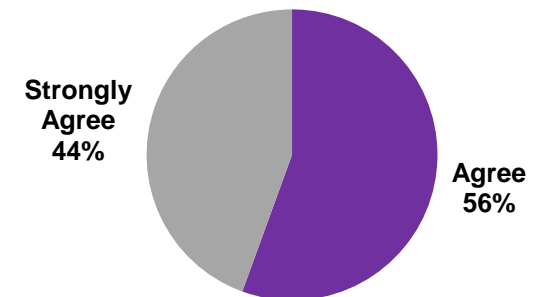
THE PRESENTERS WERE POSITIVE FOR THE ENGINEERING SECTOR



I WOULD RECOMMEND ENGINEERING CAREERS TO STUDENTS WHO WISH TO MAKE A DIFFERENCE



I WILL RECOMMEND AND PROMOTE THIS AND SIMILAR PROGRAMS FOR OTHER CLASSES OR STUDENTS

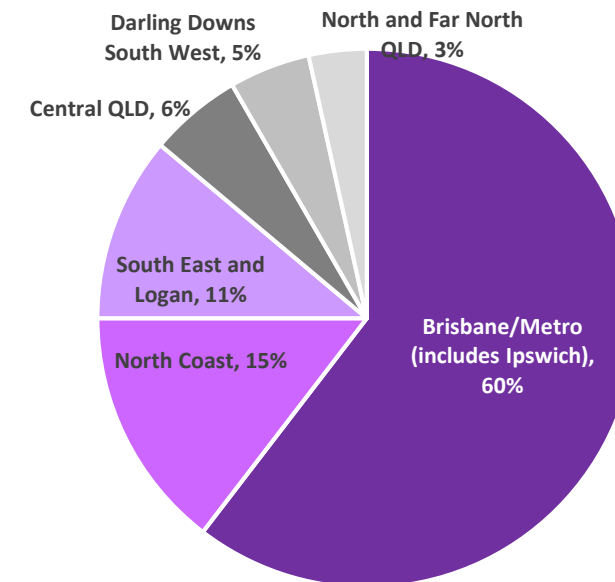


# Future Roadshows and Regional Data 2019

2019 Regional Key Feeder Schools for female enrolments in Engineering at UQ

School	Number of Female Enrolments			School Region
	2017	2018	2019	
St Patricks College (Mackay)	0	0	3	Central QLD
Sunshine Coast Grammar School	0	0	3	North Coast
Pine Rivers State High School	0	0	3	North Coast
North Lakes State College	0	0	2	North Coast
Narangba Valley State High School	0	2	2	North Coast
Aldridge State High School	0	0	2	North Coast
Good Shepard Lutheran College	1	0	2	North Coast
Somerset College	3	0	2	South East
Coomera Anglican College	0	3	2	South East
Kingaroy State High	0	0	2	Darling Downs
St Ursula's College Toowoomba	0	0	2	Darling Downs
The Cathedral School of St Anne and St James	0	0	2	North QLD

2019 Female School Leaver Data by School Region – enrolled in Engineering disciplines at UQ





# Potential for Regional Engagement

- Emerging key feeder region: **North Coast**
  - 75% increase from 2018 to 2019 in female school leavers from “North Coast” region enrolling in engineering disciplines at UQ, a road show in this area would allow for engagement with the key feeder schools and new schools
  - 50% of our key feeder regional schools in 2019 are from the North Coast school region
  - Student leader from Narangba Valley State high school and WE have had outreach request from a student in Hervey Bay this year
- Female school leavers from **South East and Logan** school region decreased 24% from 2017 to 2019 - this would be a manageable roadshow by car due to proximity to Brisbane and strategic to increase engagement and awareness of UQ engineering in the area

# Potential for Regional Engagement

- One day trip from Brisbane proposal: **Toowoomba**
  - There are many schools in Toowoomba that could justify it's own road show/day trip from UQ
  - 2019 Key feeder school St Ursula's College is in this region (2 female enrolments this year) and we have teacher interest from this school in the UQ WE program
  - We also have a student leader that attended another school in Toowoomba – Fairholme College (1 female enrolment into UQ engineering every year since 2016) and has engaged with her school contacts who are very interested in the UQ We program to visit, present and run the workshop.
- One of our NEW 2019 key feeder schools was St Patricks College in **Mackay** with 3 female enrolments in 2019 – WE have not previously engaged with this school



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# Thank you

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